



**PHILLIPS PETROLEUM COMPANY**

BARTLESVILLE, OKLAHOMA 74003

EXPLORATION AND PRODUCTION DEPARTMENT

February 22, 1967

Vacuum Abo Unit  
Lea County, New Mexico

Honorable David F. Cargo, Chairman  
Oil Conservation Commission  
State of New Mexico  
Santa Fe, New Mexico

Attention Mr. A. L. Porter, Jr.

Gentlemen:

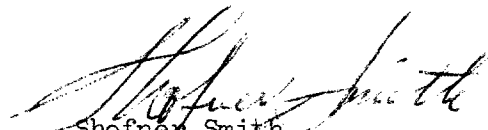
This concerns the Vacuum Abo Unit, Lea County, New Mexico, the establishment and operation of which was approved by Order Nos. R-3180 and R-3181, both dated January 8, 1967.

Enclosed are copies of the following documents pertaining to the Vacuum Abo Unit:

1. Conformed Copy of Unit Agreement
2. Certificate of Effectiveness
3. Certificate of Revision of Exhibits with attached revised Exhibits "A" and "B" to the Unit Agreement

The Certificate of Revision of Exhibits and the revised Exhibits "A" and "B" have been submitted to the Commissioner of Public Lands for approval. The revision of Exhibits "A" and "B" was required as Tract 3 failed to qualify under the provisions of the Unit Agreement. These revised exhibits are to be effective on February 1, 1967.

Very truly yours,

  
Shofner Smith  
Production Director

TCD:emm  
Encl.

State of New Mexico  
County of Lea

Certificate of Effectiveness  
Vacuum Abo Unit  
Lea County, New Mexico

WHEREAS, Phillips Petroleum Company, a Delaware Corporation, duly authorized to do business in the State of New Mexico, and with its principal office in Bartlesville, Oklahoma, has been duly designated as Unit Operator pursuant to the agreement entitled, "Unit Agreement - Vacuum Abo Unit - Vacuum Field, Lea County, New Mexico", hereinafter referred to as "Unit Agreement", a counterpart of which was filed for record on January 9th, 1967, in Volume 260, Page 376, of the Misce. Records of Lea County, New Mexico; and

WHEREAS, Article 22 provides that this Agreement shall become binding upon each party who executes or ratifies it as of the date of execution or ratification by such party and shall become effective as of 7:00 a.m. on the first day of the calendar month next following:

- (a) The execution or ratification of the Unit Agreement and Unit Operating Agreement by Working Interest Owners owning a unit participation of at least eighty percent (80%), and the execution or ratification of at least seventy-five percent (75%) of the Royalty Interest in lands described in Section 2 of the Unit Agreement.
- (b) The approval of the Unit Agreement by the Commissioner of Public Lands of the State of New Mexico, and approval by the Oil Conservation Commission of the State of New Mexico.
- (c) The filing of at least one counterpart of the Unit Agreement for record in Lea County, New Mexico, and within thirty days after the Unit effective date, the filing of a "Certificate" to the effect that the Unit has become effective according to its terms and stating further the effective date.

WHEREAS, Tracts comprising ninety-six percent (96%) of the acreage shown on the original exhibit "B" have qualified for inclusion under provisions of Article 22 of the Unit Agreement.

NOW, THEREFORE, Phillips Petroleum Company, as Unit Operator, does hereby certify as follows:

1. Counterpart of the Unit Agreement was recorded in the Miscellaneous records of Lea County, New Mexico in Volume 260, Page 376 on January 9, 1967.

2. The Unit Agreement has been approved by the Commissioner of Public Lands of the State of New Mexico on the 20th day of January, 1967, and by the Oil Conservation Commission of New Mexico in its Order No. R-3180 dated January 18th, 1967.
3. Phillips Petroleum Company, Unit Operator, having complied with the foregoing requirements of Article 22 of the Unit Agreement declares the Vacuum Abo Unit effective as of 7:00 a.m., February 1, 1967.

IN WITNESS WHEREOF, this instrument is executed as of the 1st day of February, 1967.

PHILLIPS PETROLEUM COMPANY

ATTEST:

Harold M. Thompson  
Asst. Secretary

By J. D. Brooke  
Vice President

(CORPORATE ACKNOWLEDGMENT)

STATE OF OKLAHOMA

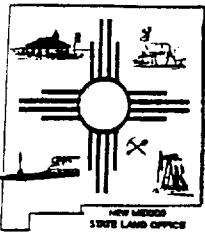
COUNTY OF WASHINGTON

BEFORE ME, the undersigned authority, on this day personally appeared H. D. BROOKS, known to me to be the person who executed the foregoing instrument as Vice President of Phillips Petroleum Company, and acknowledged to me that he executed the same for the purposes and consideration therein expressed; as the act and deed of said corporation, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 1st day of February, 1967.

Russell J. McLellan  
My Comm. Expires 11-1-<sup>70</sup>~~66~~

Russell J. McLellan  
NOTARY PUBLIC in and for  
Washington County, Oklahoma



State of N Mexico  
Commissioner of Public Lands

#3508

W. R. Humphries  
COMMISSIONER

Advisory Board

George Clark  
Chairman

Kristin Conniff  
Vice Chairman

Melvin Cordova

Joe Kelly

Robert Portillos

Nancy Lynch Vigil  
Rex Wilson

April 24, 1990

Phillips Petroleum Company  
4001 Penbrook  
Odessa, Texas 79762

ATTN: D.A. Brown

RE: Vacuum Abo Unit  
1990 Plan of Development

Gentlemen:

The Commissioner of Public Lands has this date approved the 1990 Plan of Development for the Vacuum Abo Unit. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the Unit may exist. You will be contacted at a later date regarding these possibilities.

Enclosed is an approved copy of the 1990 Plan of Development for your files. If we may be of further help, please do not hesitate to contact this office at (505) 827-5746.

Very truly yours,

W.R. HUMPHRIES,  
COMMISSIONER OF PUBLIC LANDS

BY:

FLOYD O. PRANDO, Director  
Oil and Gas Division  
(505) 827-5746

cc: OCD - Santa Fe, New Mexico  
BLM  
Unit Correspondence File  
Unit P.O.D. File

WRH/FOP/SMH

# State of New Mexico



JIM BACA  
COMMISSIONER



## Commissioner of Public Lands

November 2, 1983

P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148

#3508

Kellahin and Kellahin  
P. O. Box 2265  
Santa Fe, New Mexico 87504-2265

Re: Phillips Petroleum Company  
Vacum Abo Unit  
Lea County, New Mexico

ATTENTION: Mr. W. Thomas Kellahin

Gentlemen:

This office is in receipt of your letter dated October 12, 1983, wherein you have notified this office of an application to amend the Vacum Abo Unit pressure maintenance project.

Please be advised that this office has no objection to amend order R-3181 and R-3181-A to include injection of water, for the conversion of certain producing wells to inject and for the expansion of the project area for the Vacum Abo Unit, Lea County, New Mexico.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

JIM BACA  
COMMISSIONER OF PUBLIC LANDS

BY: *Ray D. Graham*  
RAY D. GRAHAM, Director  
Oil and Gas Division  
AC 505/827-5744

JB/RDG/pm  
encls.  
cc:

OCD-Santa Fe, New Mexico

GOVERNOR  
DAVID F. CARGO  
CHAIRMAN

State of New Mexico  
**Oil Conservation Commission**



LAND COMMISSIONER  
GUYTON B. HAYS  
MEMBER

STATE GEOLOGIST  
A. L. PORTER, JR.  
SECRETARY - DIRECTOR

P. O. BOX 2088  
SANTA FE

January 18, 1967

Mr. Jason Kellahin  
Kellahin & Fox  
Attorneys at Law  
Post Office Box 1769  
Santa Fe, New Mexico

Re: Case No. 3508  
Order No. R-3180  
Applicant:  
PHILLIPS PETROLEUM COMPANY

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/ir

Carbon copy of order also sent to:

Hobbs OCC x

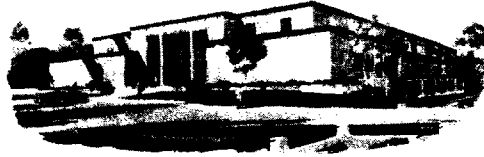
Artesia OCC       

Aztec OCC       

Other Mrs. Rhea

# State of New Mexico

TELEPHONE  
505-827-2748



## Commissioner of Public Lands

August 8, 1972

ALEX J. ARMIJO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

Phillips Petroleum Company  
Phillips Building, Fourth & Washington  
Odessa, Texas 79760

Re: Subsequent Joinder of Getty Oil  
Company's Interest, Tract 13,  
Vacuum Abo Unit, Lea County,  
New Mexico  
File: W2-Ed-494-72

ATTENTION: Mr. G. W. Edwards

Gentlemen:

We are in receipt of your letter dated July 31, 1972, together with Subsequent Joinder from Getty Oil Company, whereby Getty Oil Company has committed its 15.39624 percent working interest in Tract 13 to the Vacuum Abo Unit. The unit participation for this interest being 3.85328 percent.

This Subsequent Joinder has been approved by the Commissioner of Public Lands as of this date to become effective September 1, 1972.

This office requires an originally signed copy of this joinder, therefore, please submit an originally signed copy to this office as soon as possible. Also, in your letter you state that Getty Oil Company interest was the only unsigned working interest in Tract 13. Our records reflect that Aztec Oil Company has not ratified the Unit Agreement or Operating Agreement. Please let us know if this is in order.

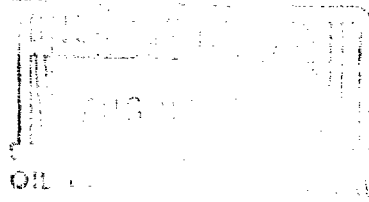
Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s  
cc:

OCC-Santa Fe, New Mexico

August 17, 1972



Subsequent Joinder of Getty Oil  
Company's Interest, Tract 13,  
Vacuum Abo Unit, Lea County,  
New Mexico

File: W2-Ed-525-72

State of New Mexico (2)  
Land Office Building  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Attention: Mr. Ray D. Graham, Director  
Oil and Gas Department

Gentlemen:

Reference is made to your August 8, 1972, letter, under the above subject, by which the Commissioner approved joinder of Getty Oil Company's interest in Tract 13, Vacuum Abo Unit, Lea County, New Mexico, to be effective September 1, 1972.

Attached for your files are copies of revised Exhibit "B" to the Unit Agreement and Exhibit "C", Parts 1 and 2, to the Unit Operating Agreement, Vacuum Abo Unit. The revised exhibits become effective September 1, 1972. Exhibit "A" to the Unit Agreement was not revised as no change in the Unit Area is involved.

Also attached, in fulfillment of the requests contained in your referenced letter, are the following:

1. An original of "Working Interest Owner Agreement to Become a Party to Unit Agreement and Unit Operating Agreement, Vacuum Abo Unit, Lea County, New Mexico", executed by Getty Oil Company. In addition, a copy of the joinder agreement showing recording data is included. The agreement was recorded in Miscellaneous Deeds Book 304, Page 318, Lea County, New Mexico, July 28, 1972.
2. Two copies of "Working Interest Owner Agreement to Become a Party to Unit Agreement and Unit Operating Agreement, Vacuum Abo Unit, Lea County, New Mexico", executed by Astec Oil and Gas Company, May 6, 1966.



To: State of New Mexico (2)  
Attn: Mr. Ray D. Graham  
File: W2-Ed-525-72  
Date: August 17, 1972  
Page: 2

Your prompt assistance and cooperation relative to this joinder are appreciated.

Very truly yours,

PHILLIPS PETROLEUM COMPANY

Original Signed by  
G. W. Edwards

G. W. Edwards, Chairman  
Working Interest Owners Committee

JWM:dva  
Attachments

cc: New Mexico Oil Conservation Commission ✓  
State Land Office Building  
Attention: Mr. A. L. Porter, Jr.,  
Secretary-Director  
P. O. Box 2088  
Santa Fe, New Mexico 87501  
Attachments

WORKING INTEREST OWNER  
AGREEMENT TO BECOME A PARTY TO UNIT AGREEMENT  
AND UNIT OPERATING AGREEMENT  
VACUUM ABO UNIT

1057

Lea County, New Mexico

Each of the persons who signs this instrument acknowledges receipt of a counterpart of an instrument entitled, "Unit Agreement for the Development and Operation of the Vacuum Abo Unit, Vacuum Field, Lea County, New Mexico", and a counterpart of an instrument entitled, "Unit Operating Agreement," Vacuum Abo Unit, Lea County, New Mexico, both of which are dated December 1, 1965, for the purpose of conducting Unit Operations with respect to the Abo Reef of the Permian Formation underlying the following described Unit Area:

NEW MEXICO PRINCIPAL MERIDIAN, NEW MEXICO

Township 17 South, Range 35 East

Section 25: NW/4 NE/4, NW/4, and N/2 SW/4  
 26: E/2, NE/4 NW/4, S/2 NW/4, and SW/4  
 27: S/2 SW/4 and SE/4  
 33: SE/4 NE/4, SW/4 SW/4, E/2 SW/4, and SE/4  
 34: N/2, SW/4, W/2 SE/4, and NE/4 SE/4  
 35: NW/4

Township 18 South, Range 35 East

Section 3: NE/4 NW/4 and W/2 NW/4  
 4: N/2, SW/4 and N/2 SE/4  
 5: NE/4 NE/4, S/2 NE/4, S/2 NW/4 and S/2  
 8: N/2 NE/4 and NW/4

Situated in Lea County, New Mexico, containing 3,640 acres, more or less.

The Unit Agreement and Unit Operating Agreement provide that any person defined in the Unit Agreement as a Working Interest Owner may become a party to the Agreements by signing the original, a counterpart, or other instrument that evidences an intention to be bound by the terms of both Agreements.

NOW, THEREFORE, each of the persons who signs this instrument hereby agrees to become a party to, and be bound by provisions of, the Unit Agreement and the Unit Operating Agreement as if he had signed the original Agreements and agrees that the parties to the Unit Agreement and the Unit Operating Agreement are those that sign the original Agreements, any counterparts of both instruments, or any instrument that evidences an intention to be so bound.

Executed as of the 6th day of May, 1966.

Date May 6, 1966  
 Attest *Robert L. Reed*  
 Notary Public Secretary

Company ARCO OIL & GAS COMPANY  
 By *Edward M. Anderson*  
 Vice President

Date \_\_\_\_\_  
 Witness \_\_\_\_\_

Individual \_\_\_\_\_ Husband  
 \_\_\_\_\_ Wife

Address \_\_\_\_\_

(Required Notary Acknowledgment on reverse side - to be completed)

CORPORATION ACKNOWLEDGMENT

STATE OF TEXAS )  
COUNTY OF DALLAS ) ss

On this 6th day of May, 1966, before me appeared E. M. Anderson, to me personally know, who being by me duly sworn, did say that he is the Vice President of Aztec Oil & Gas Company, a corporation, and that the seal affixed to said instrument is the Corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said William B. Davis acknowledged said instrument to be the free act of said corporation.

GIVEN under my hand and seal of office this 6th day of May, 1966.

My Commission Expires:

June 1, 1967

Sharon D. Butler  
Notary Public, in and for said  
Dallas County, Texas

Lovington Abstract Co.  
Lovington, New Mexico

INDIVIDUAL ACKNOWLEDGMENT

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_.

My Commission Expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public, in and for said  
\_\_\_\_\_  
County, \_\_\_\_\_

JOINT ACKNOWLEDGMENT  
(Husband and Wife)

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_ and \_\_\_\_\_, his wife.

My Commission Expires

\_\_\_\_\_

\_\_\_\_\_  
Notary Public, in and for said  
\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF NEW MEXICO  
COUNTY OF LEA  
FILED

FEB 2 1967

at 1:10 o'clock P. M.  
and recorded in book 261  
Page 136

LELIE HALDEMAN, county clerk  
By [Signature] Deputy



1057

WORKING INTEREST OWNER  
AGREEMENT TO BECOME A PARTY TO UNIT AGREEMENT  
AND UNIT OPERATING AGREEMENT  
VACUUM ABO UNIT  
LEA COUNTY, NEW MEXICO

Getty Oil Company, successor in interest to Tidewater Oil Company, acknowledges receipt of a counterpart of an instrument entitled, "Unit Agreement for the Development and Operation of the Vacuum Abo Unit, Vacuum Field, Lea County, New Mexico", and a counterpart of an instrument entitled, "Unit Operating Agreement, Vacuum Abo Unit, Lea County, New Mexico", both of which are dated December 1, 1965, for the purpose of conducting Unit Operations with respect to the Abo Reef of the Permian Formation underlying the following described Unit Area:

NEW MEXICO PRINCIPAL MERIDIAN, NEW MEXICO

Township 17 South, Range 35 East

Section 25: N/2 NW/4, NW/4 NE/4  
26: E/2 NW/4, SW/4 NW/4, NE/4, and S/2  
27: S/2 SW/4 and SE/4  
33: SE/4 NE/4, SW/4 SW/4, E/2 SW/4, and SE/4  
34: N/2, SW/4, N/2 SE/4, and SW/4 SE/4  
35: NW/4

Township 18 South, Range 35 East

Section 3: N/2 NW/4 and SW/4 NW/4  
4: N/2, N/2 S/2, and S/2 SW/4  
5: NE/4 NE/4, S/2 N/2, and S/2  
8: NW/4 and N/2 NE/4

Situated in Lea County, New Mexico, containing 3,480 acres, more or less.

The Unit Agreement and Unit Operating Agreement provide that any person defined in the Unit Agreement as a Working Interest Owner may become a party to the Agreements by signing the original, a counterpart, or other instrument that evidences an intention to be bound by the terms of both Agreements.

NOW, THEREFORE, the undersigned Getty Oil Company hereby agrees to become a party to, and be bound by, provisions of the Unit Agreement and the Unit Operating Agreement under Section 30 of the Unit Agreement, the joinder of the undersigned to be effective at 7:00 A.M., as of the first day of the month following the filing with the Oil Conservation Commission and the Commissioner of Public Lands of the State of New Mexico of duly executed counterparts of all or any papers necessary to establish effective commitment of the interest of the undersigned in Tract 13, and approval by the Commissioner.

Executed the 14<sup>th</sup> day of July, 1972.

GETTY OIL COMPANY

Date JUL 14, 1972

By [Signature]  
Vice President

Attest [Signature]  
Assistant Secretary

STATE OF TEXAS )  
COUNTY OF HARRIS ) ss

On this 14th day of July, 1972, before me appeared H. E. BERG, to me personally known, who being by me duly sworn, did say that he is the Vice President of GETTY OIL COMPANY, a corporation, and that the seal affixed to said instrument is the Corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said H. E. BERG acknowledged said instrument to be the free act of said corporation.

1972.

GIVEN under my hand and seal of office this 14th day of July,

My Commission Expires:

June 1, 1973

Barbara Y. Wilkins  
Notary Public, in and for said  
HARRIS County, TEXAS

BARBARA Y. WILKINS

Notary Public in and for Harris County, Texas.

My commission expires June 1, 1973.

ELLIOTT & WALDRON  
ABSTRACT & TITLE  
LOVINGTON, TEXAS

17579

STATE OF NEW MEXICO  
COUNTY OF LEA  
FILED

JUL 28 1972

at 1:05 o'clock P  
and Recorded in Book 202  
Page 318  
JANE RICE SMITH, County Clerk  
By [Signature] Deputy

EXHIBIT "B" TO UNIT AGREEMENT  
VACUUM ABO UNIT, LEA COUNTY, NEW MEXICO  
REVISED---EFFECTIVE SEPTEMBER 1, 1972

| Tract No. | Description of Land   | No. of Acres       | New Mexico State Lease Number  | Basic Royalty and Amount, Percent   | Lessee of Record       | Overriding Royalty Owners and Amount, Percent | Working Interest Owners and Percent Working Interest in Tract   |               | Unit Participation, Percent       |
|-----------|---|--------------------|--|---|------------------------|---|---|---------------|-----------------------------------|
|           |   |                    |  |   |                        |   |   |               |                                   |
| 1         | NW/4 NE/4 Sec. 25-17S-35-E and W/2 SE/4 Sec. 27-17S-35E                           | 120                | B-1840-1   | State of New Mexico<br>12.50000   | Chevron Oil Company    | None  | Chevron Oil Company   | 100.00000     | <u>.86531</u>                     |
| 2         | NE/4 NW/4 Sec. 25-17S-35E   | 40                 | Private Land<br>Scharbauer Cattle Co.<br>Viola Lee<br>Bookie Lee<br>Roy R. Lee<br>R. D. Lee, Jr.<br>Giles M. Lee | Listed below:<br>14.06250<br>.82030<br>.96680<br>.96680<br>.96680<br>.96680<br>18.75000 | Neville G. Penrose     | None  | Mercantile-Safe Deposit & Tr. Co., et al, Trustee under Trust, U/D Donaldson Brown<br>47.50000<br>Mercantile-Safe Deposit & Tr. Co., et al, Trustee under Trust, U/D Donaldson Brown, A/C 2<br>2.50000<br>50.00000<br>100.00000<br>Penrose Production Company | <u>.45766</u> |                                   |
| 4         | N/2 NE/4 Sec. 26-17S-35E  | 80                 | B-2735   | State of New Mexico<br>12.50000   | Mobil Oil Corp.        | None  | Mobil Oil Corp.   | 100.00000     | <u>.88422</u>                     |
| 5         | W/2 SE/4 Sec. 26-17S-35E  | 80                 | B-1399-10  | State of New Mexico<br>12.50000   | Sinclair Oil & Gas Co. | None  | Shell Oil Company   | 100.00000     | <u>3.52510</u>                    |
| 6         | NW/4 NW/4 Sec. 25-17S-35E   | 40                 | B-960  | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Phillips Petroleum Co.  | 100.00000     | <u>.50316</u>                     |
| 6A        | S/2 SW/4 Sec. 26-17S-35E  | 80                 | B-2131   | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Phillips Petroleum Co.  | 100.00000     | <u>3.70916</u>                    |
| 6B        | SE/4 NE/4 Sec. 26-17S-35E   | 40                 | B-1861   | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Phillips Petroleum Co.  | 100.00000     | <u>2.06273</u>                    |
| 6C        | NW/4 SW/4 and NE/4 SE/4 Sec. 26-17S-35E   | 80                 | B-1608   | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Phillips Petroleum Co.  | 100.00000     | <u>3.42433</u>                    |
| 6D        | NE/4 SW/4 Sec. 26-17S-35E   | 40                 | B-2360-1   | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Phillips Petroleum Co.  | 100.00000     | <u>2.09480</u>                    |
| 6E        | S/2 NW/4 and NE/4 NW/4 and SW/4 NE/4 Sec. 26-17S-35E and S/2 SW/4 Sec. 27-17S-35E | 240                | B-1497   | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Phillips Petroleum Co.  | 100.00000     | <u>8.37386</u>                    |
| 6F        | NE/4 Sec. 34 and NW/4 Sec. 35-17S-35E   | 320                | B-2519   | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Phillips Petroleum Co.  | 100.00000     | <u>11.86220</u>                   |
| 6G        | SE/4 SE/4 Sec. 26 and SE/4 SW/4 Sec. 33-17S-35E                                   | 80                 | B-2073   | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Phillips Petroleum Co.  | 100.00000     | <u>.55407</u>                     |
| 6H        | NE/4 SW/4 Sec. 33-17S-35E   | 40                 | B-2862-3   | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Phillips Petroleum Co.  | 100.00000     | <u>.00000</u>                     |
| 6I        | S/2 NW/4 Sec. 5-18S-35E   | <u>80</u><br>1,040 | B-1502   | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Phillips Petroleum Co.  | 100.00000     | <u>1.70685</u><br><u>34.29116</u> |
| 7         | E/2 SE/4 Sec. 27-17S-35E  | 80                 | B-1404-2   | State of New Mexico<br>12.50000   | Shell Oil Company      | None  | Shell Oil Company   | 100.00000     | <u>3.72942</u>                    |
| 8         | NW/4 Sec. 34-17S-35E  | 160                | B-2273-2   | State of New Mexico<br>12.50000   | Mobil Oil Corp.        | None  | Mobil Oil Corp.   | 100.00000     | <u>6.77456</u>                    |
| 9         | SE/4 NE/4 Sec. 33-17S-35E   | 40                 | B-1713-1   | State of New Mexico<br>12.50000   | Marathon Oil Company   | None  | Marathon Oil Company  | 100.00000     | <u>.12350</u>                     |
| 10        | N/2 S/2, S/2 SW/4, SW/4 SE/4 Sec. 34-17S-35E                                      | 280                | B-1845-1   | State of New Mexico<br>12.50000   | Chevron Oil Company    | None  | Chevron Oil Company   | 100.00000     | <u>9.63178</u>                    |

EXHIBIT "B" TO UNIT AGREEMENT  
VACUUM ABO UNIT, LEA COUNTY, NEW MEXICO  
REVISED---EFFECTIVE SEPTEMBER 1, 1972  
Page 2

| Tract No. | Description of Land           | No. of Acres     | New Mexico State Lease Number | Basic Royalty and Amount, Percent | Lessee of Record       | Overriding Royalty Owners and Amount, Percent | Working Interest Owners and Percent Working Interest in Tract | Unit Participation, Percent       |
|-----------|-------------------------------|------------------|-------------------------------|-----------------------------------|------------------------|---|---|-----------------------------------|
| 11        | SE/4 Sec. 33-17S-35E          | 160              | B-1400-3                      | State of New Mexico<br>12.50000   | Shell Oil Company      | None  | Shell Oil Company<br>100.00000                                | <u>4.65589</u>                    |
| 12        | SW/4 SW/4 Sec. 33-17S-35E     | 40               | B-1565-2                      | State of New Mexico<br>12.50000   | Getty Oil Company      | None  | Getty Oil Company<br>100.00000                                | <u>.84693</u>                     |
| 13        | NE/4 NE/4 Sec. 5-18S-35E      | 40               | B-2073                        | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Aztec Oil & Gas Co.<br>7.69812                                | 1.92663                           |
|           | S/2 NE/4 Sec. 5-18S-35E       | 80               | B-2073                        | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Chevron Oil Co.<br>36.54368                                   | 9.14593                           |
|           | NW/4 Sec. 4-18S-35E           | 160              | B-2131                        | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Cities Service Oil Co.<br>1.91708                             | .47980                            |
|           | NE/4 SE/4 Sec. 4-18S-35E      | 40               | B-2131                        | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Getty Oil Company<br>15.39624                                 | 3.83328                           |
|           | SW/4 NW/4 Sec. 3-18S-35E      | 40               | B-1608                        | State of New Mexico<br>12.50000   | Phillips Petroleum Co. | None  | Marathon Oil Co.<br>7.67406                                   | 1.92061                           |
|           | NE/4 Sec. 4-18S-35E           | 160              | B-1713-1                      | State of New Mexico<br>12.50000   | Marathon Oil Company   | None  | Phillips Petroleum Co.<br>23.07270                            | 5.77450                           |
|           | N/2 NW/4 Sec. 3-18S-35E       | 80               | E-3287-1                      | State of New Mexico<br>12.50000   | Cities Service Oil Co. | Cities Serv. Oil Co.<br>1.44                  | Shell Oil Company<br><u>7.69812</u><br>100.00000              | <u>1.92664</u><br><u>25.02739</u> |
|           | NW/4 SE/4 Sec. 4-18S-35E      | 40               | E-3286-1                      | State of New Mexico<br>12.50000   | Cities Service Oil Co. | Pacific Sabine No. 3<br>0.46                  |   |                                   |
|           | E/2 SE/4 Sec. 5-18S-35E       | 80               | E-3140-2                      | State of New Mexico<br>12.50000   | Shell Oil Company      | Jas. D. Erwin<br>0.19                         |   |                                   |
|           | S/2 SW/4 Sec. 4-18S-35E       | 80               | E-6504                        | State of New Mexico<br>12.50000   | Shell Oil Company      | None  |   |                                   |
|           | W/2 SE/4 Sec. 5-18S-35E       | 80               | B-1838-1                      | State of New Mexico<br>12.50000   | Chevron Oil Company    | None  |   |                                   |
|           | N/2 SW/4 Sec. 4-18S-35E       | <u>80</u><br>960 | OG-2302                       | State of New Mexico<br>12.50000   | Chevron Oil Company    | None  |   |                                   |
| 14        | SW/4 Sec. 5-18S-35E           | 160              | E-6504                        | State of New Mexico<br>12.50000   | Shell Oil Company      | None  | Shell Oil Company<br>100.00000                                | <u>4.91722</u>                    |
| 15        | NW/4, N/2 NE/4 Sec. 8-18S-35E | 240              | E-6704                        | State of New Mexico<br>12.50000   | Skelly Oil Company     | None  | Skelly Oil Company<br>100.00000                               | <u>3.69395</u>                    |
|           | Total Acres                   | 3,480            |                               |                                   |                        |   | Total   | 100.00000                         |

EXHIBIT "C"--PART 1 (TRACT SEQUENCE)      PAGE 1  
TO UNIT OPERATING AGREEMENT  
VACUUM ABO UNIT

WORKING INTEREST OWNERSHIP AND PARTICIPATION  
REVISED--EFFECTIVE SEPTEMBER 1, 1972

| Tract<br>No. | Working Interest Owner  | Working Interest<br>in Tract<br>Percent | Unit<br>Participation<br>Percent |
|--------------|---|---|----------------------------------|
| 1            | Chevron Oil Company   | 100.00000                               | .86531                           |
| 2            | Mercantile-Safe Deposit & Trust<br>Co., et al, Trustee under Trust,<br>U/D Donaldson Brown        | 47.50000                                | .45766                           |
| 2            | Mercantile-Safe Deposit & Trust<br>Co., et al, Trustee under Trust,<br>U/D Donaldson Brown, A/C 2 | 2.50000                                 | .02409                           |
| 2            | Penrose Production Company  | 50.00000                                | .48175                           |
| 4            | Mobil Oil Corporation   | 100.00000                               | .88422                           |
| 5            | Shell Oil Company   | 100.00000                               | 3.59510                          |
| 6            | Phillips Petroleum Company  | 100.00000                               | .50316                           |
| 6A           | Phillips Petroleum Company  | 100.00000                               | 3.70916                          |
| 6B           | Phillips Petroleum Company  | 100.00000                               | 2.06273                          |
| 6C           | Phillips Petroleum Company  | 100.00000                               | 3.42433                          |
| 6D           | Phillips Petroleum Company  | 100.00000                               | 2.09480                          |
| 6E           | Phillips Petroleum Company  | 100.00000                               | 8.37386                          |
| 6F           | Phillips Petroleum Company  | 100.00000                               | 11.86220                         |
| 6G           | Phillips Petroleum Company  | 100.00000                               | .55407                           |
| 6H           | Phillips Petroleum Company  | 100.00000                               | .00000                           |
| 6I           | Phillips Petroleum Company  | 100.00000                               | 1.70685                          |
| 7            | Shell Oil Company   | 100.00000                               | 3.72949                          |
| 8            | Mobil Oil Corporation   | 100.00000                               | 6.77456                          |
| 9            | Marathon Oil Company  | 100.00000                               | .12350                           |
| 10           | Chevron Oil Company   | 100.00000                               | 9.63178                          |
| 11           | Shell Oil Company   | 100.00000                               | 4.65589                          |
| 12           | Getty Oil Company   | 100.00000                               | .84693                           |
| 13           | Aztec Oil and Gas Company   | 7.69812                                 | 1.92663                          |
| 13           | Chevron Oil Company   | 36.54368                                | 9.14593                          |
| 13           | Cities Service Oil Company  | 1.91708                                 | .47980                           |
| 13           | Getty Oil Company   | 15.39624                                | 3.85328                          |
| 13           | Marathon Oil Company  | 7.67406                                 | 1.92061                          |
| 13           | Phillips Petroleum Company  | 23.07270                                | 5.77450                          |
| 13           | Shell Oil Company   | 7.69812                                 | 1.92664                          |
| 14           | Shell Oil Company   | 100.00000                               | 4.91722                          |
| 15           | Skelly Oil Company  | 100.00000                               | 3.69395                          |
|              | Grand Total   |   | 100.00000                        |



EXHIBIT "C"--PART 2 (OWNER SEQUENCE)      PAGE 1  
TO UNIT OPERATING AGREEMENT  
VACUUM ABO UNIT

WORKING INTEREST OWNERS AND PARTICIPATION  
REVISED--EFFECTIVE SEPTEMBER 1, 1972

| <u>Working Interest Owner</u>   | <u>Tract No.</u> | <u>Unit Participation</u>      |                            |
|---|------------------|--------------------------------|----------------------------|
|   |                  | <u>Owner by Tracts Percent</u> | <u>Owner Total Percent</u> |
| Aztec Oil and Gas Company   | 13               | 1.92663                        | 1.92663                    |
| Chevron Oil Company   | 1                | .86531                         |                            |
|   | 10               | 9.63178                        |                            |
|   | 13               | 9.14593                        | 19.64302                   |
| Cities Service Oil Company  | 13               | .47980                         | .47980                     |
| Getty Oil Company   | 12               | .84693                         |                            |
|   | 13               | 3.85328                        | 4.70021                    |
| Marathon Oil Company  | 9                | .12350                         |                            |
|   | 13               | 1.92061                        | 2.04411                    |
| Mercantile-Safe Deposit & Trust Co., et al, Trustee under Trust, U/D Donaldson Brown        | 2                | .45766                         | .45766                     |
| Mercantile-Safe Deposit & Trust Co., et al, Trustee under Trust, U/D Donaldson Brown, A/C 2 | 2                | .02409                         | .02409                     |
| Mobil Oil Corporation   | 4                | .88422                         |                            |
|   | 8                | 6.77456                        | 7.65878                    |
| Penrose Production Company  | 2                | .48175                         | .48175                     |
| Phillips Petroleum Company  | 6A               | 3.70916                        |                            |
|   | 6B               | 2.06273                        |                            |
|   | 6C               | 3.42433                        |                            |
|   | 6D               | 2.09480                        |                            |
|   | 6E               | 8.37386                        |                            |
|   | 6F               | 11.86220                       |                            |
|   | 6G               | .55407                         |                            |
|   | 6H               | .00000                         |                            |
|   | 6I               | 1.70685                        |                            |
|   | 6                | .50316                         |                            |
|   | 13               | 5.77450                        | 40.06566                   |
| Shell Oil Company   | 5                | 3.59510                        |                            |
|   | 7                | 3.72949                        |                            |
|   | 11               | 4.65589                        |                            |
|   | 13               | 1.92664                        |                            |
|   | 14               | 4.91722                        | 18.82434                   |
| Skelly Oil Company  | 15               | 3.69395                        | 3.69395                    |
|   |                  | Grand Total                    | 100.00000                  |



**PHILLIPS PETROLEUM COMPANY**

ODESSA, TEXAS 79760  
PHILLIPS BUILDING, FOURTH & WASHINGTON

EXPLORATION & PRODUCTION DEPARTMENT

July 31, 1972



3508

Subsequent Joinder of Getty Oil  
Company's Interest, Tract 13,  
Vacuum Abo Unit, Lea County,  
New Mexico

---

File: W2-Ed-497-72

New Mexico Oil Conservation Commission  
State Land Office Building  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attention: Mr. A. L. Porter, Jr.  
Secretary-Director

Gentlemen:

Section 30 of the Unit Agreement of the Vacuum Abo Unit, Lea County, New Mexico, provides for subsequent joinder subject to such requirements or approvals and on such basis as may be agreed upon by seventy-five percent (75%) of the Working Interest Owners. It further provides that such subsequent joinder shall be effective at 7:00 A.M., as of the first day of the month following the filing with the Commission and the Commissioner of duly executed counterparts of all or any papers necessary to establish effective commitment of any interest to this agreement, and approval by the Commissioner.

Pursuant to the provisions of the Unit Agreement, attached for the files of the Oil Conservation Commission is a copy of "Working Interest Owner Agreement to Become a Party to Unit Agreement and Unit Operating Agreement, Vacuum Abo Unit, Lea County, New Mexico", which has been executed by Getty Oil Company, successor in interest to Tidewater Oil Company, whereby Getty Oil Company agrees to commit its 15.39624 percent working interest in Tract 13 to the Vacuum Abo Unit. Unit participation for this interest is 3.85328 percent.

Tract 13 was originally brought into the unit under the terms of Section 11 (c) of the Unit Agreement, which provides that a tract with less than 100 percent of the Working Interest Owners having become parties to such agreement may be included in the unit area if all of the Working Interest Owners in such tract, who are parties to the agreement, request that the tract be included in the unit area, and execute and deliver an indemnity agreement, indemnifying and agreeing to hold harmless the other Working Interest Owners in the unit area. The Getty (formerly Tidewater) interest was the only unsigned working interest in Tract 13.

To: New Mexico Oil Conservation Commission  
Attn: Mr. A. L. Porter, Jr.,  
Secretary-Director  
File: W2-Ed-497-72  
Date: July 31, 1972  
Page: 2

By letter dated April 27, 1972, Getty formally requested that its uncommitted interest in Tract 13 of the Vacuum Abo Unit be admitted to the unit with the same participation as originally assigned (3.85328% of total unit). Subsequently, the Working Interest Owners were balloted regarding the requested joinder. Unconditional approval was received from 76.36083 percent of the Working Interest Owners, which is more than sufficient to meet the requirement stipulated in Section 30 of the Unit Agreement. No disapprovals were received. Conditional approval (the interest to be committed no earlier than September 1, 1972) was received from Shell Oil Company. Therefore, in view of the fact the anticipated effective date is September 1, 1972, Shell's approval (18.82434%) has been added to the 76.36083 percent above, resulting in a total approval of 95.18517 percent of the Working Interest Owners.

By separate correspondence, approval of the Commissioner of Public Lands of the State of New Mexico has been requested for the admission of the subject interest to the Vacuum Abo Unit, Lea County, New Mexico, effective 7:00 A.M., September 1, 1972.

Very truly yours,

PHILLIPS PETROLEUM COMPANY

A handwritten signature in cursive script, appearing to read "G. W. Edwards".

G. W. Edwards, Chairman  
Working Interest Owners Committee

JWM:dva  
Attachment

WORKING INTEREST OWNER  
AGREEMENT TO BECOME A PARTY TO UNIT AGREEMENT  
AND UNIT OPERATING AGREEMENT  
VACUUM ABO UNIT  
LEA COUNTY, NEW MEXICO

Getty Oil Company, successor in interest to Tidewater Oil Company, acknowledges receipt of a counterpart of an instrument entitled, "Unit Agreement for the Development and Operation of the Vacuum Abo Unit, Vacuum Field, Lea County, New Mexico", and a counterpart of an instrument entitled, "Unit Operating Agreement, Vacuum Abo Unit, Lea County, New Mexico", both of which are dated December 1, 1965, for the purpose of conducting Unit Operations with respect to the Abo Reef of the Permian Formation underlying the following described Unit Area:

NEW MEXICO PRINCIPAL MERIDIAN, NEW MEXICO

Township 17 South, Range 35 East

Section 25: N/2 NW/4, NW/4 NE/4  
26: E/2 NW/4, SW/4 NW/4, NE/4, and S/2  
27: S/2 SW/4 and SE/4  
33: SE/4 NE/4, SW/4 SW/4, E/2 SW/4, and SE/4  
34: N/2, SW/4, N/2 SE/4, and SW/4 SE/4  
35: NW/4

Township 18 South, Range 35 East

Section 3: N/2 NW/4 and SW/4 NW/4  
4: N/2, N/2 S/2, and S/2 SW/4  
5: NE/4 NE/4, S/2 N/2, and S/2  
8: NW/4 and N/2 NE/4

Situated in Lea County, New Mexico, containing 3,480 acres, more or less.


The Unit Agreement and Unit Operating Agreement provide that any person defined in the Unit Agreement as a Working Interest Owner may become a party to the Agreements by signing the original, a counterpart, or other instrument that evidences an intention to be bound by the terms of both Agreements.

NOW, THEREFORE, the undersigned Getty Oil Company hereby agrees to become a party to, and be bound by, provisions of the Unit Agreement and the Unit Operating Agreement under Section 30 of the Unit Agreement, the joinder of the undersigned to be effective at 7:00 A.M., as of the first day of the month following the filing with the Oil Conservation Commission and the Commissioner of Public Lands of the State of New Mexico of duly executed counterparts of all or any papers necessary to establish effective commitment of the interest of the undersigned in Tract 13, and approval by the Commissioner.

Executed the 14<sup>th</sup> day of July, 1972.

GETTY OIL COMPANY

Date JUL 14 1972

By   
Vice President

Attest   
Assistant Secretary

STATE OF TEXAS )  
COUNTY OF HARRIS ) ss

On this 14th day of July, 1972, before me appeared  
H. E. BERG, to ~~me~~ personally known, who being by me duly  
sworn, did say that he is the Vice President of GETTY OIL COMPANY,  
a corporation, and that the seal affixed to said instrument is the Corporate seal  
of said corporation, and that said instrument was signed and sealed in behalf of  
said corporation by authority of its Board of Directors, and said H. E. BERG  
acknowledged said instrument to be the free act of said corporation.

GIVEN under my hand and seal of office this 14th day of July,  
1972.

My Commission Expires:

June 1, 1973

Barbara Y. Wilkins  
Notary Public, in and for said  
HARRIS County, TEXAS

BARBARA Y. WILKINS  
Notary Public in and for Harris County, Texas.  
My commission expires June 1, 1973.

July 31, 1972

Subsequent Joinder of Getty Oil  
Company's Interest, Tract 13,  
Vacuum Abo Unit, Lea County,  
New Mexico

---

File: W2-Ed-497-72

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State Land Office Building  
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Secretary-Director

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To: New Mexico Oil Conservation Commission  
Attn: Mr. A. L. Porter, Jr.,  
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By separate correspondence, approval of the Commissioner of Public Lands of the State of New Mexico has been requested for the admission of the subject interest to the Vacuum Abo Unit, Lea County, New Mexico, effective 7:00 A.M., September 1, 1972.

Very truly yours,

PHILLIPS PETROLEUM COMPANY



G. W. Edwards, Chairman  
Working Interest Owners Committee

JWM:dva  
Attachment

WORKING INTEREST OWNER  
AGREEMENT TO BECOME A PARTY TO UNIT AGREEMENT  
AND UNIT OPERATING AGREEMENT  
VACUUM ABO UNIT  
LEA COUNTY, NEW MEXICO

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33: SE/4 NE/4, SW/4 SW/4, E/2 SW/4, and SE/4  
34: N/2, SW/4, N/2 SE/4, and SW/4 SE/4  
35: NW/4

Township 18 South, Range 35 East

Section 3: N/2 NW/4 and SW/4 NW/4  
4: N/2, N/2 S/2, and S/2 SW/4  
5: NE/4 NE/4, S/2 N/2, and S/2  
8: NW/4 and N/2 NE/4

Situated in Lea County, New Mexico, containing 3,480 acres, more or less.

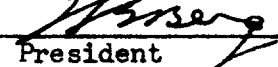
The Unit Agreement and Unit Operating Agreement provide that any person defined in the Unit Agreement as a Working Interest Owner may become a party to the Agreements by signing the original, a counterpart, or other instrument that evidences an intention to be bound by the terms of both Agreements.

NOW, THEREFORE, the undersigned Getty Oil Company hereby agrees to become a party to, and be bound by, provisions of the Unit Agreement and the Unit Operating Agreement under Section 30 of the Unit Agreement, the joinder of the undersigned to be effective at 7:00 A.M., as of the first day of the month following the filing with the Oil Conservation Commission and the Commissioner of Public Lands of the State of New Mexico of duly executed counterparts of all or any papers necessary to establish effective commitment of the interest of the undersigned in Tract 13, and approval by the Commissioner.

Executed the 14<sup>th</sup> day of July, 1972.

GETTY OIL COMPANY

Date JUL 14 1972

By   
Vice President

Attest   
Assistant Secretary



STATE OF TEXAS )  
COUNTY OF HARRIS ) ss

On this 14th day of July, 1972, before me appeared  
H. E. BERG, to me personally known, who being by me duly  
sworn, did say that he is the Vice President of GETTY OIL COMPANY,  
a corporation, and that the seal affixed to said instrument is the Corporate seal  
of said corporation, and that said instrument was signed and sealed in behalf of  
said corporation by authority of its Board of Directors, and said H. E. BERG  
acknowledged said instrument to be the free act of said corporation.

GIVEN under my hand and seal of office this 14th day of July,  
1972.

My Commission Expires:

June 1, 1973

Barbara Y. Wilkins  
Notary Public, in and for said  
HARRIS County, TEXAS

BARBARA Y. WILKINS  
Notary Public in and for Harris County, Texas.  
My commission expires June 1, 1973

KELLAHIN AND FOX  
ATTORNEYS AT LAW  
54½ EAST SAN FRANCISCO STREET  
POST OFFICE BOX 1769  
SANTA FE, NEW MEXICO 87501

JASON W. KELLAHIN  
ROBERT E. FOX

TELEPHONE 982-4315  
AREA CODE 505

December 20, 1966

Oil Conservation Commission of New Mexico  
Box 2088  
Santa Fe, New Mexico

Gentlemen:

Reference is made to the application of Phillips Petroleum Corporation for approval of the Vacuum Abo Unit and application for pressure maintenance which was filed with the Commission.

Attached are a copy of the unit agreement, unit operating agreement, a plat of the area, well logs, and schematic diagrams of the gas injection wells.

Yours very truly,

JASON W. KELLAHIN

*JK*

jwk;peg  
Enc.

cc Mr. Frank Irby